

MSDS

Material Safety Data Sheet



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Formalin-Aceto-Alcohol Fixative

SECTION 1 PRODUCT IDENTIFICATION

NAME: Formalin-Aceto-Alcohol Fixative
EKI ORDER NUMBER: 4497
SYNONYMS: N/I
CAS NO: Does not apply
FORMULA: Does not apply
REVISION DATE: 19 April 2004

****LABEL HAZARD STATEMENT AND PRECAUTIONS****

WARNING! FLAMMABLE LIQUID AND VAPOR. HARMFUL IF INHALED. CAUSES EYE AND RESPIRATORY TRACT IRRITATION. MAY CAUSE SKIN IRRITATION. MAY BE HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN. SUSPECT CANCER HAZARD. CONTAINS FORMALDEHYDE, WHICH MAY CAUSE CANCER. Risk of cancer depends on duration and level of exposure. Keep away from heat, sparks and flame. Avoid contact with skin, eyes and clothing. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

SECTION 2 HAZARDOUS INGREDIENTS / EXPOSURE LIMITS

INGREDIENT/CAS NO	OSHA PEL	ACGIH TLV
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Formaldehyde 37%/50-00-0	0.75 ppm TWA 2 ppm STEL	0.3 ppm TWA
Ethyl Alcohol/64-17-5	1000 ppm TWA	1000 ppm TWA
Isopropyl Alcohol/67-63-0	400 ppm TWA	200 ppm TWA 400 ppm STEL
Methyl Alcohol/67-56-1	200 ppm TWA	200 ppm TWA Skin 250 ppm STEL Skin
Acetic Acid	10 ppm TWA	10 ppm TWA 15 ppm STEL
Formaldehyde, ~4% and Methyl Alcohol, ~3.6% are subject to the reporting requirements of SARA 313 and 40CFR372.		

SECTION 3 PHYSICAL / CHEMICAL CHARACTERISTICS

SOLUBILITY IN WATER: Miscible	BOILING POINT (C): N/E
VAPOR PRESSURE (mm Hg): N/E	VAPOR DENSITY: N/E
SPECIFIC GRAVITY: N/E	MELTING POINT (C): N/E
EVAPORATION RATE: N/E	
APPEARANCE AND ODOR: Clear, colorless liquid. Acrid odor.	

SECTION 4 FIRE / EXPLOSION HAZARD DATA

FLASH POINT (C): N/E
AUTOIGNITION TEMPERATURE (C): N/E

FLAMMABLE LIMITS (%) UEL: N/E LEL: N/E
EXTINGUISHING MEDIA: Water spray, dry chemical, CO₂, "alcohol" foam. Water may be ineffective.
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear self-contained breathing apparatus with full face piece operated in pressure-demand or other positive-pressure mode.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapor can flow to distant ignition sources and flash back.

SECTION 5 REACTIVITY DATA

STABILITY: Stable
CONDITIONS TO AVOID: Low temperature
MATERIALS TO AVOID: Oxidizers, alkali and alkali metals, silver salts, acid chlorides
HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO₂, Formaldehyde
HAZARDOUS POLYMERIZATION: Does not occur.

SECTION 6 HEALTH HAZARD DATA

ROUTES OF ENTRY AND EFFECTS OF OVEREXPOSURE
INHALATION: Causes irritation.
SKIN CONTACT: May cause irritation
EYE CONTACT: Causes irritation.
SKIN ABSORPTION: See under Ingestion.
INGESTION: May cause intoxication, headache, blindness, severe abdominal pain, vomiting, headache, diarrhea.
CHRONIC: Dermatitis, drying of skin.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Skin or eye disorders.
CARCINOGENICITY: Formaldehyde is an NTP Anticipated Carcinogen and an ARC Category 2A substance.

****FIRST AID PROCEDURES****

EYE CONTACT: Immediately flush with plenty of water for at least 15 minutes. get medical attention.
SKIN CONTACT: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention for persistent irritation.
INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
INGESTION: If conscious, give large amounts of water to drink. Get immediate medical attention.

SECTION 7 PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED: Ventilate area and eliminate sources of ignition. Absorb with inert material and containerize for disposal.
WASTE DISPOSAL METHOD: Dispose in accordance with all applicable federal, state, and local environmental regulations.
STORAGE: Store tightly closed in approved Flammable Liquids storage area.

SECTION 8 CONTROL MEASURES

VENTILATION: Local preferred.
RESPIRATORY PROTECTION: Full face piece air-supplied respirator, if necessary.
EYE PROTECTION: Chemical splash safety goggles and/or full face shield.
SKIN PROTECTION: Gloves, lab coat and impervious apron.

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